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WHAT IS CLAIMED IS:

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1. A method for fabricating a porous silica sphere comprising: heat-treating a silica gel by increasing its temperature at a speed of less than 90 $^{\circ}$ C per minute up to 1050 or 1200 $^{\circ}$ C; and

maintaining the temperature for a predetermined time.

- 2. The method of claim 1, wherein the silica gel has pores with a size of about 20 to 70 angstroms, and a pore volume of around 0.3 to 1.1 ml/g.
- The method of claim 1, wherein the heat-treatment is performed at 3. an average temperature elevating speed ranging from 5 ℃ to 90 ℃ per minute.
- The method of claim 1, wherein the heat-treatment is performed at an average temperature elevating speed ranging from 10 ℃ to 70 ℃ per minute.
- The method of claim 1, wherein heat treatment is performed in a 5. rotary tube furnace.
- A method for fabricating a porous silica sphere comprising 6. a heat treatment process, wherein silica gel is subjected to a first heattreatment at 400 to 900 ℃, and is subjected to a second heat-treatment at 1050 to 1200 ℃.
- 7. The method of claim 6, wherein the first heat treatment is performed for 20 to 60 minutes, and the second heat treatment is performed for 20 to 60 minutes.
- The method of claim 6, wherein the heat treatment is performed 8. using at least two rotary tube furnaces.
 - The method of claim 6, which comprises 9. putting the silica gel into a first tube furnace;

subjecting it to a first heat-treatment by increasing the temperature at an to 20 minutes; and

subjecting it to a second heat-treatment in the second tube furnace at 1100 to 1150 °C, then maintaining it for 20 to 60 minutes.